



Radioactive Waste Management And Disposal

Robert R. Redfield



Radioactive Waste Management And Disposal:

Low-Level Radioactive Waste Management and Disposition National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Planning Committee on Low-Level Radioactive Waste Management and Disposition: A Workshop, 2017-06-05 The Department of Energy's Office of Environmental Management DOE is responsible for the safe cleanup of sites used for nuclear weapons development and government sponsored nuclear energy research Low level radioactive waste LLW is the most volumetrically significant waste stream generated by the DOE cleanup program LLW is also generated through commercial activities such as nuclear power plant operations and medical treatments The laws and regulations related to the disposal of LLW in the United States have evolved over time and across agencies and states resulting in a complex regulatory structure DOE asked the National Academies of Sciences Engineering and Medicine to organize a workshop to discuss approaches for the management and disposition of LLW Participants explored the key physical chemical and radiological characteristics of low level waste that govern its safe and secure management and disposal in aggregate and in individual waste streams and how key characteristics of low level waste are incorporated into standards orders and regulations that govern the management and disposal of LLW in the United States and in other major waste producing countries This publication summarizes the presentations and discussions from the workshop *Improving the Regulation and Management of Low-Activity Radioactive Wastes* National Research Council, Division on Earth and Life Studies, Board on Radioactive Waste Management, Committee on Improving Practices for Regulating and Managing Low-Activity Radioactive Wastes, 2003-10-14 Low activity radioactive wastes include a broad spectrum of materials for which a regulatory patchwork has evolved over almost 60 years These wastes present less of a radiation hazard than either spent nuclear fuel or high level radioactive waste Low activity wastes however may produce potential radiation exposure at well above background levels and if not properly controlled may represent a significant chronic and in some cases an acute hazard For some low activity wastes the present system of controls may be overly restrictive but it may result in the neglect of others that pose an equal or higher risk The purpose of this interim report is to provide an overview of current low activity waste regulations and management practices *Improving the Regulation and Management of Low Activity Radioactive Wastes Interim Report on Current Regulations Inventories and Practices* identifies gaps and inconsistencies that suggest areas for improvements The final report will assess options for improving the current practices and provide recommendations **Radioactive Waste Management** James Saling, 2018-04-27 This reviews sources of radioactive waste and introduces radioactive decay and radiation shielding calculations It covers technical and regulatory aspects of waste management with discussion questions at the end of each chapter to provide an opportunity to explore the many facets of waste management issues An extensive reference list at the end of each chapter retains the references from the first edition of the book and incorporates references used in preparing

this revised text giving readers an opportunity to look at historical records as well as current information

Radioactive Waste Management, 1995-04 U.S. Terminal Procedures, 2015 *Disposition of High-Level Waste and Spent Nuclear Fuel* National Research Council, Division on Earth and Life Studies, Board on Radioactive Waste Management, Committee on Disposition of High-Level Radioactive Waste Through Geological Isolation, 2001-07-05 Focused attention by world leaders is needed to address the substantial challenges posed by disposal of spent nuclear fuel from reactors and high level radioactive waste from processing such fuel The biggest challenges in achieving safe and secure storage and permanent waste disposal are societal although technical challenges remain Disposition of radioactive wastes in a deep geological repository is a sound approach as long as it progresses through a stepwise decision making process that takes advantage of technical advances public participation and international cooperation Written for concerned citizens as well as policymakers this book was sponsored by the U S Department of Energy U S Nuclear Regulatory Commission and waste management organizations in eight other countries

Radioactive Waste Management In The 21st Century William R Roy, 2021-06-10 The safe management of radioactive wastes is of paramount importance in gaining both governmental and societal support for nuclear energy The scope of this new textbook is to provide a comprehensive perspective on all types of radioactive wastes as to how they are created classified characterized and disposed Written to emphasize how geology and radionuclide chemistry impact waste management this book is primarily designed for engineers who have little background in geology with low level wastes decommissioning wastes high level wastes and spent nuclear fuel This textbook provides the most up to date information available on waste management in several countries The content of this work includes transporting radioactive materials to disposal facilities The textbook cites numerous case studies to illustrate past practices current methodologies and to provide insights on how radioactive wastes may be managed in the future An international perspective on waste management is also provided to help the readers better understand the diversity in approaches while highlighting what many countries have in common Review questions for classroom use are provided at the end of each chapter Related Link s

Radioactive Waste Management and Contaminated Site Clean-Up William E Lee, Michael I. Ojovan, Carol M Jantzen, 2013-10-31 Radioactive waste management and contaminated site clean up reviews radioactive waste management processes technologies and international experiences Part one explores the fundamentals of radioactive waste including sources characterisation and processing strategies International safety standards risk assessment of radioactive wastes and remediation of contaminated sites and irradiated nuclear fuel management are also reviewed Part two highlights the current international situation across Africa Asia Europe and North America The experience in Japan with a specific chapter on Fukushima is also covered Finally part three explores the clean up of sites contaminated by weapons programmes including the USA and former USSR Radioactive waste management and contaminated site clean up is a comprehensive resource for professionals researchers scientists and academics in radioactive waste management governmental and other regulatory bodies and the nuclear power

industry Explores the fundamentals of radioactive waste including sources characterisation and processing strategies Reviews international safety standards risk assessment of radioactive wastes and remediation of contaminated sites and irradiated nuclear fuel management Highlights the current international situation across Africa Asia Europe and North America specifically including a chapter on the experience in Fukushima Japan **Managing the nation's commercial high-level radioactive waste. , Civilian Nuclear Waste Disposal** Mark Holt,2012-10-07 Decision-making and Radioactive Waste Disposal Andrew Newman,Gerry Nagtzaam,2015-11-19 The International Atomic Energy Agency estimates that nuclear power generation facilities produce about 200 000 cubic meters of low and intermediate level waste each year Vital medical procedures industrial processes and basic science research also produce significant quantities of waste All of this waste must be shielded from the population for extended periods of time Finding suitable locations for disposal facilities is beset by two main problems community responses to siting proposals are generally antagonistic and as a result governments have tended to be reactive in their policy making Decision making and Radioactive Waste Disposal explores these issues utilizing a linear narrative case study approach that critically examines key stakeholder interactions in order to explain how siting decisions for low level waste disposal are made Five countries are featured the US Australia Spain South Korea and Switzerland This book seeks to establish an understanding of the political economic environmental legal and social dimensions of siting across those countries This valuable resource fills a gap in the literature and provides recommendations for future disposal facility siting efforts The book will be of interest to students and scholars of environmental law justice management politics energy and security policy as well as decision makers in government and industry *Disposition of High-Level Radioactive Waste Through Geological Isolation* National Research Council,Division on Earth and Life Studies,Commission on Geosciences, Environment and Resources,Board on Radioactive Waste Management,1999-10-07 During the next several years decisions are expected to be made in several countries on the further development and implementation of the geological disposition option The Board on Radioactive Waste Management BRWM of the U S National Academies believes that informed and reasoned discussion of relevant scientific engineering and social issues can and should play a constructive role in the decision process by providing information to decision makers on relevant technical and policy issues A BRWM initiated project including a workshop at Irvine California on November 4 5 1999 and subsequent National Academies report to be published in spring 2000 are intended to provide such information to national policy makers both in the U S and abroad To inform national policies it is essential that experts from the physical geological and engineering sciences and experts from the policy and social science communities work together Some national programs have involved social science and policy experts from the beginning while other programs have only recently recognized the importance of this collaboration An important goal of the November workshop is to facilitate dialogue between these communities as well as to encourage the sharing of experiences from many national programs The workshop steering committee has prepared

this discussion for participants at the workshop It should elicit critical comments and help identify topics requiring in depth discussion at the workshop It is not intended as a statement of findings conclusions or recommendations It is rather intended as a vehicle for stimulating dialogue among the workshop participants Out of that dialogue will emerge the findings conclusions and recommendations of the National Academies report The Road to Yucca Mountain J. Samuel Walker, 2009-09-02 In *The Road to Yucca Mountain* J Samuel Walker traces the U S government s tangled efforts to solve the technical and political problems associated with radioactive waste From the Manhattan Project through the designation in 1987 of Yucca Mountain in Nevada as a high level waste repository Walker thoroughly investigates the approaches adopted by the U S Atomic Energy Commission AEC He explains the growing criticism of the AEC s waste programs such as the AEC s embarrassing failure in its first serious effort to build a high level waste repository in a Kansas salt mine Clearly and accessibly Walker explains the issues surrounding deep geological disposal and surface storage of high level waste and spent reactor fuel He analyzes the equally complex and divisive question of fuel reprocessing He weaves reliable research with fresh insights about nuclear science geology politics and public administration making this original and authoritative account an essential guide for understanding the continuing controversy over an illusive and emotional topic *Geological Disposal of Radioactive Wastes and Natural Analogues* W. Miller, R. Alexander, N. Chapman, John C McKinley, J.A.T. Smellie, 2000-11-09 Many countries are currently exploring the option to dispose of highly radioactive solid wastes deep underground in purpose built engineered repositories A number of surface and shallow repositories for less radioactive wastes are already in operation One of the challenges facing the nuclear industry is to demonstrate confidently that a repository will contain wastes for so long that any releases that might take place in the future will pose no significant health or environmental risk One method for building confidence in the long term future safety of a repository is to look at the physical and chemical processes which operate in natural and archaeological systems and to draw appropriate parallels with the repository For example to understand why some uranium orebodies have remained isolated underground for billions of years Such studies are called natural analogues This book investigates the concept of geological disposal and examines the wide range of natural analogues which have been studied Lessons learnt from studies of archaeological and natural systems can be used to improve our capabilities for assessing the future safety of a radioactive waste repository **Radioactive Waste Management** Robert E. Berlin, Catherine C. Stanton, 1989-02-16 *Radioactive Waste Management Hazardous Waste Management* Gaynor W Dawson and Basil W Mercer This book addresses major technical areas associated with the safe management of hazardous waste and covers a broad spectrum of environmental engineering and administrative concerns Topics discussed include regulations governing hazardous waste management defining and quantifying hazardous wastes facility siting abandoned disposal sites transportation treatment processes incineration and ocean dumping 1986 0 471 82268 X 532 pp Hazardous and Toxic Materials Safe Handling and Disposal 2nd Edition Edited by Howard H Fawcett In this

second edition thirteen experts offer their views research and latest findings on a wide range of topical issues including the Toxic Substances Control Act SARA long term toxicity the Delaware River pollution problem medical care and surveillance for hazardous waste works oil spills aqueous foams remediation of contaminated sites facility siting and safe transport of dangerous goods This book contains new and updated data laws and considerations necessary for the continued upkeep of the industry s safety standards 1988 0 471 62729 1 514 pp Introduction to Hazardous Waste Incineration Louis Theodore and Joseph Reynolds This invaluable reference text is divided into four parts covering the basic concepts principles equipment and applications pertaining to hazardous waste incineration The authors have generously supplemented the text with over 70 illustrative examples ranging from trial burn procedures to incineration applications Readers will find these examples helpful in understanding the procedures equations tables and graphs presented throughout the text 1987 0 471 84976 6 463 pp

The Impact of Low-Level Radioactive Waste Management Policy on Biomedical Research in the United States National Research Council, Commission on Life Sciences, Board on Radiation Effects Research, Committee on the Impact of Low-Level Radioactive Waste Management Policy on Biomedical Research in the United States, 2001-02-09 The National Research Council s Committee on the Impact of Low Level Radioactive Waste Management Policy on Biomedical Research in the United States was called on to assess the effects of the low level radioactive waste management policy on the current and future activities of biomedical research This report provides an assessment of the effects of the current management policy for low level radioactive waste LLRW and resulting consequences such as higher LLRW disposal costs and onsite storage of LLRW on the current and future activities of biomedical research That assessment will include evaluating the effects that the lack of facilities and disposal capacity and rules of disposal facilities have on institutions conducting medical and biological research and on hospitals where radioisotopes are used for the diagnosis and treatment of disease Nuclear Waste Management Strategies Mark H. Sanders, Charlotta E. Sanders, 2019-10-16 Nuclear Waste Management Strategies An International Perspective presents worldwide insights into nuclear waste management strategies from a technical engineering perspective with consideration for important legal aspects It provides a one stop comprehensive analysis of both historical and up to date nuclear waste management strategies while consulting important legal aspects of decision making and implementation processes With case studies from around the world this book provides a unique understanding of nuclear waste management technologies and methods available ensuring that researchers and engineering professionals are equipped with the right knowledge to design build implement and improve their own waste management strategies This book will benefit those researching and learning in the nuclear energy sector especially those specializing in nuclear waste management strategies as well as technical and legal communities within nuclear and environmental areas It is also a valuable resource for lawmakers and regulatory bodies concerned with nuclear policy and waste management Provides a one stop location for reference material on nuclear waste management strategies from around the world Focuses on the

associated technical engineering elements of planning for and implementing waste management strategies Includes real life examples from Europe North America South America Asia the Middle East and Africa Nuclear Waste Politics Matthew Cotton,2017-07-14 The question of what to do with radioactive waste has dogged political administrations of nuclear powered electricity producing nations since the inception of the technology in the 1950s As the issue rises to the forefront of current energy and environmental policy debates a critical policy analysis of radioactive waste management in the UK provides important insights for the future Nuclear Waste Politics sets out a detailed historical and social scientific analysis of radioactive waste management and disposal in the UK from the 1950s up to the present day drawing international comparisons with Sweden Finland Canada and the US A theoretical framework is presented for analysing nuclear politics blending literatures on technology policy environmental ethics and the geography and politics of scale The book proffers a new theory of ethical incrementalism and practical policy suggestions to facilitate a fair and efficient siting process for radioactive waste management facilities The book argues that a move away from centralised high capital investment national siting towards a regional approach using deep borehole disposal could resolve many of the problems that the high stakes inflexible megaproject approach has caused across the world This book is an important resource for academics and researchers in the areas of environmental management energy policy and science and technology studies **Low-level**
Radioactive Waste Management in Texas Texas Low-Level Radioactive Waste Disposal Authority,1998* **High-level**
Radioactive Waste and Spent Nuclear Fuel Disposal ,1987

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